

Tuesday, 14 February 1989
Mardi, 14 février 1989

Astrid Hall
18.15-19.30

Poster Session (cont'd)

- P21** **Characterization of the environmental tobacco smoke generated by different cigarettes**
P.R. Nelson, D.L. Heavner & B.B. Collie (R.J. Reynolds Tobacco Company, Bowman Gray Technical Center, Winston-Salem, North Carolina, U.S.A.)
- P23** **Health and social problems of carbon monoxide poisoning by using anthracite coal as a space heating fuel in Korea**
Yong Chung & Dongchun Shin (Institute for Environmental Research, Seoul, Korea)
- P24** **Contrôle de la qualité de l'air dans les garages collectifs**
F. Cupelin & J.-Cl. Landry (Service cantonal d'écotoxicologie, Genève, Suisse)
- P25** **Un analyseur d'oxydes d'azote à l'étude de la pollution intérieure : l'APPI-AC 35**
B. Millancourt (Electricité de France, Direction des Etudes et Recherches, Chatou, France)
- P26** **Automatic analyser prototype for atmospheric isoprene and monoterpenes**
M.L. Riba, B. Clement, M. Haziza & L. Torres (Ecole Nationale Supérieure de Chimie de Toulouse, Institut National Polytechnique, Toulouse, France)
- P27** **Perméabilité, étanchéité ou transparence à l'air des bâtiments, des applications différentes pour un même problème**
M. Kilberger (Centre d'Etudes Techniques de l'Equipement de Lyon, France)
- P28** **Tobacco smoke and indoor air pollution**
P. Thirumalaikolundusubramanian & S. Shanmuganandan (*Madurai Medical College & Department of Geography, Madurai Kamaraj University, India)
- P29** **On the use of environmental tobacco smoke component ratios**
G.B. Oldaker III*, **W.E. Crouse & R.M. DePinto (*R.J. Reynolds Tobacco Company, Winston Salem, NC & **Lorillard Inc., Greensboro, NC, USA)
- O30** **Sensory responses to environmental tobacco smoke from cigarettes that heat but do not burn tobacco**
J.C. Walker, R.A. Jennings, W.T. Morgan, J.H. Robinson & J.H. Reynolds IV (R.J. Reynolds Tobacco Company, Winston-Salem, North Carolina, U.S.A.)
- 044** **Regression model for indoor concentrations of combustion-generated gases**
A. Hendel-Kramer, J. Kuhr, R. Urbanek, H. Staiger*, E. Schultz* & W. Karmaus**
(University Children Hospital, Freiburg, *German Weather Service, Freiburg & **Centre of Science, Berlin, F.R. Germany)

Wednesday, 15 February 1989
 Mercredi, 15 février 1989

Albert I Hall

Session II

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen

S.J. Kilpatrick, Jr. & R. Rylander

- 09.00 O27 Exposure to ets and its biological effects**
 F. Adlkofer, G. Scherer, L. Von Meyerinck, Ch. Von Maltzan & L. Jarczyk (Forschungsgesellschaft Rauchen und Gesundheit mbH, Hamburg, F.R. Germany)
- 09.20 O28 Carbonyl compounds in mainstream and sidestream cigarette smoke**
 H. Schlitt & H. Knappel (Commission of the European Communities, Joint Research Centre, Environment Institute, Ispra, Italy)
- 09.35 O29 Nicotine uptake through the airway during passive smoking and its effect on annoyance**
 A. Iwase, H. Saitoh, Y. Doi, M. Aiba, N. Yamauchi, T. Miyara & S. Kira (Department of Respiratory Medicine, Juntendo University, School of Medicine, Hongo, Tokyo, Japan)
- 09.50 P17 Etude des relations à échelle fine entre pollutions intérieure et extérieure (SO₂NO_xparticules) dans un hôpital de la région Parisienne**
 J.C. Lowenstein (Electricité de France, Direction des Etudes et Recherches, Chatou, France)
- 10.05 O31 Nonsmokers attitude towards indoor air quality**
 S. Shanmuganandan & P. Thirumalaikolundusubramanian* (Department of Geography, Madurai Kamaraj University & *Department of Medicine, Madurai Medical College, India)
- 10.20 O32 Perception of daily cigarette consumption in the office environment**
 D.A. Sterling, D.J. Moschandreas* & R.D. Gibbons** (Old Dominion University, Norfolk, Virginia, *IFT Research Institute, Chicago & **University of Illinois, Chicago, Illinois, U.S.A.)
- 10.35 Coffee break/Pause café**

Wednesday, 15 February 1989
 Mercredi, 15 février 1989

Albert I Hall

Session II (cont'd)

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen
 D. Rondia & M. Mansour

- 11.00 O33 Accumulation of semi-volatile chemicals in indoor-environment**
 I. Gebefügi & F. Korte (Gesellschaft für Strahlen- und Umweltforschung mbH München, Institut für Ökologische Chemie, Neuherberg & Technical University of Munich, Institute of Chemistry, Chair of Ecological Chemistry, Freising-Weihenstephan, F.R. Germany)
- 11.15 O34 Role of combustion products in bronchial hyperreactivity - A case control study**
 M. Bert, J. Kühr, A. Hendel-Kramer, R. Urbanek, E. Schultz*, H. Staiger* & W. Karmaus*
 * (University Children Hospital, Freiburg, *German Weather Service, Freiburg & **Centre of Science, Berlin, F.R. Germany)
- 11.30 O35 Use of molecular biologic techniques to study pulmonary fibrosis**
 A. Poole (Smith Kline and French Research Ltd. The Frythe, Welwyn, United Kingdom)
- 11.45 O36 Glucans as potential inflammatory agents in indoor air**
 R. Rylander, S. Srensen, H. Goto*, K. Yuasa* & S. Tanaka (Department of Environmental Hygiene, University of Gothenburg, Sweden & *Institute of Medical Sciences, Tokyo, Japan)
- 12.00 O37 The contribution of unvented natural gas combustion to indoor air quality**
 I. Billick (Gas Research Institute, Chicago, U.S.A.)
- 12.15 O38 An epidemiologic study of the dose-response relationship between BaP concentration in indoor air and lung cancer mortality in Xuan Wei, China**
 Xingzhou He & Wei Chen (Institute of Environmental Health and Engineering Chinese Academy of Preventive Medicine, Beijing, China)
- 12.30 Lunch break/Pause déjeuner**

18 DEC 90

Wednesday, 15 February 1989
Mercredi, 15 février 1989

Albert I Hall

Session III

**INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS**

Chairmen

C. Molina & J.E.H.M. van Bronswijk

- 14.00 O39 Ventilation, health and energy conservation : a workable compromise**
G. Robertson (ACVA Atlantic Inc., Fairfax, VA, USA)
- 14.20 O40 Sick buildings can be controlled through air quality specifications and monitoring**
T. Astrm (Västra Frunda, Sweden)
- 14.35 O42 Aeroallergen species and their indoor/outdoor relationship**
D.A. Sterling & T.H. Stock* (Old Dominion University, Norfolk & *University of Texas, Houston, Texas, U.S.A.)
- 14.50 O43 Quelques exemples d'études d'ambiances climatisées**
A. Mouilleseaux, F. Squinazi & B. Festy (Laboratoire d'Hygiène de la Ville de Paris, France)
- 15.05 O45 Residence time of vapour pollutants in the atmosphere**
M. Mansour (Institut für Ökologische Chemie, Freising Attaching, F.R. Germany)
- 15.20 O46 A Czechoslovak survey about ventilation habits in dwellings**
L. Pírsel (Slovak Technical University, Bratislava, Czechoslovakia)
- 15.20-15.50 Discussion**
- 15.50 Coffee break/pause café**

Wednesday, 15 February 1989
 Mercredi, 15 février 1989

Albert I Hall

Session III (cont'd)

INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS

Chairmen

J. Bignon & G. Löfroth

- 16.30 O47 Emissions from building materials. The role of additives in PVC-materials**
 K. Saarela, K. Kaustia & A. Kiviranta (Technical Research Centre of Finland, Chemical Laboratory, Espoo, Finland)
- 16.45 O48 Influence of indoor air pollution on NO₂ personal exposure levels of school-children**
 Y. Shimizu, S. Imai* & Y. Tsunetoshi** (Department of Public Health, Saitama Medical College, *Department of Public Health, Osaka Prefectural Government & **Department of Public Health, Miyazaki Medical College, Japan)
- 17.00 O49 Statistical significance of home indoor air fungal spore samples in time and space**
 M. J. Jantunen, A. Nevalainen, A.-L. Pasanen* & P. Kalliokosi* (National Public Health Institute, Kuopio & *University of Kuopio, Finland)
- 17.15 O50 Indoor Pollution by mineral fibers**
 J. Bignon, G. Dufour*, P. Brochard & A. Gaudichet** (*Clinique de Pathologie Respiratoire et Environnement, INSERM 139, Créteil, *Laboratoire d'Etude des Particules Inhalées, DASES, Paris & **Lamaast, Université Paris XII, Créteil, France)
- 17.30 O51 Indoor Air Quality, Housing and Health**
 S. Shanmuganandan & P. Thirumalaikolundusubramanian* (Department of Geography, Madurai Kamaraj University & *Department of Medicine, Madurai Medical College, India)
- 17.45 O52 The Acarex/Acarosan concept, its possibilities in allergology and dermatology**
 J.E.H.M. van Bronswijk & G. Schober (Interuniversity working group Home and Health, Utrecht State University, Utrecht, The Netherlands)
- 18.00 O53 Lutte contre les excréments d'acariens porteurs d'allergènes dans l'air ambiant**
 E. Bischoff (Gesellschaft für Hausbiologische Forschung, Mainz, F.R. Germany)

Thursday, 16 February 1989
Jeudi, 16 février 1989

Albert I Hall

Session IV

INDOOR AIR QUALITY : PREVENTION AND FUTURE GUIDELINES
QUALITÉ DE L'AIR AMBIANT : PRÉVENTION ET ORIENTATIONS FUTURES

Chairmen
A.V. Nero Jr. & Cl. Bieva

- 09.00 054 **Developing an effective perspective on the risks and control of indoor air pollutants**
A.V. Nero Jr. (Lawrence Berkeley Laboratory, USA)
- 09.30 055 **New concepts of control and prevention in residential design and construction**
P. Bjerman-Lhytle (The Masters Corporation, New Canaan, Connecticut, U.S.A.)
- 09.45 056 **Portable air sampler for measurements in aircraft and public buildings**
J.F. van der Wal (MT-INO, Delft, The Netherlands)
- 10.00 **Coffee break/Pause café**
- 10.30 057 **Demand controlled ventilating systems, new concepts for indoor air quality and energy conservation**
L. Trepte (Dornier-System, Friedrichshafen, F. R. Germany)
- 10.45 058 **A database of problem buildings : learning by past mistakes**
C.W. Collett, E.M. Sterling, T.D. Sterling, & J.J. Weinkam* (Theodor D. Sterling & Associates, Vancouver & *School of Computing Science, Faculty of Applied Sciences, Simon Fraser University, Burnaby, Canada)
- 11.00 059 **Programme de traitement en vue de la lutte contre la pollution microbiologique interne occasionnée par les installations de climatisation mal entretenues**
E. Clermont (De Kobra, Opwijk, Belgique)
- 11.15 060 **Present and future exceedence of health related reference values for air pollutants in dutch dwellings**
H.J. van de Wiel & E. Lebrecht (National Institute of Public Health and Environmental Protection, Bilthoven, The Netherlands)
- 11.30 P25 **Un analyseur d'oxydes d'azote à l'étude de la pollution intérieure : l'APPI-AC 35**
B. Millancourt (Electricité de France, Direction des Etudes et Recherches, Chatou, France)
- 11.45 062 **Les actions françaises de recherche incitative pour la maîtrise de la qualité de l'air intérieur des locaux habitables**
J.P. Marie & P.C. Jacquignon (*Plan Construction et Architecture & Secrétariat d'Etat à l'Environnement, Paris, France)
- 12.00 063 **Ventilation system retrofits as a method of solution for the sick building syndrome**
E.M. Sterling & C.W. Collett (Theodor D. Sterling & Associates, Vancouver, Canada)
- 12.15 **Closing session/Séance de clôture**

18 DEC 90



L'atout de votre efficacité

- produits
- consommable
- petit matériel
- appareillage

s.a. **Vel**

Vel Rue Lenoir 8-1348 Louvain-La-Neuve
TEL. 010/45 20 10

Vel-Avenue de l'Observatoire 215/2-4000 Liège
TEL. 041/53 00 96



Autres départements de la société Vel:

- réactifs et produits pour le laboratoire
- produits chimiques pour officines
- préparation et médicaments

Produits pour droguistes et centres de bricolage

2501670709